Claims

- [c1] 1. A method of administering a pharmaceutical agent suited for iontophoretic delivery to a human or animal subject, comprising:
 first, performing a point-locating step by locating on a subject to be treated a preselected neurodermal point for receiving the pharmaceutical agent; second, performing a patch application step by applying to the subject, over the preselected neurodermal point, an iontophoretic patch containing the pharmaceutical agent to be administered; and third, performing a delivery step by applying an electrical potential across the iontophoretic patch and the subject and delivering the pharmaceutical drug from the patch to
- [c2] 2. The method of Claim 1, wherein the pharmaceutical agent is selected from the group consisting of an NMDA receptor blocker, a GABA receptor blocker, an AMPA receptor blocker, a nitric oxide synthase receptor blocker, a calcium channel blocker, an ACDP receptor blocker, a prostaglandin blocker, a leukotriene blocker, a substance P blocker, a bradykinin blocker, a neurotenin blocker, a

the subject at the neurodermal point by iontophoresis.

peptide blocker, a TNF alpha blocker, a sympathetic alpha 1 receptor blocker, a sympathetic alpha 2 receptor blocker, a non-NMDA calcium-channel blocker, and combinations thereof.

- [c3] 3. The method of Claim 2, wherein the pharmaceutical agent is carried in a topical vehicle comprising a pluronic lecithin organogel.
- [04] 4. The method of Claim 1, wherein the pharmaceutical agent is selected from the group consisting of ketamine, gabapentin, carbamazepine, clonidine, phenoxybenzamine, nifedipine, and combinations thereof.
- [c5] 5. The method of Claim 4, wherein the pharmaceutical agent is carried in a topical vehicle comprising a pluronic lecithin organogel.
- [c6] 6. The method of Claim 1, wherein the pharmaceutical agent comprises phenoxbenzamine, ketamine, and gabapentin in an approximate quantity ratio of 2:5:5.
- [c7] 7. The method of Claim 6, wherein the pharmaceutical agent comprises by volume approximately 2% phe-noxbenzamine, 5% ketamine, and 5% gabapentin carried in a topical vehicle.
- [08] 8. The method of Claim 7, wherein the topical vehicle

comprises a pluronic lecithin organogel.

- [09] 9. The method of Claim 1, wherein the pharmaceutical agent comprises a carrier containing ketamine in a quantity of at least 2% and clonidine in a quantity of at least 0.2% in concentration by volume, unbuffered.
- [c10] 10. The method of Claim 9, wherein the ketamine and clonidine each are in a concentration range of 2% to 4% by volume.
- [c11] 11. The method of Claim 1, wherein said point locating step is performed by applying an electronic point finder to the subject's body and detecting a point of reduced electrical resistance relative to the electrical resistance of a surrounding body area.
- [c12] 12. The method of Claim 1, wherein said point locating step is performed by applying an acupuncture point finder to the subject's body and locating an acupuncture point.
- [c13] 13. The method of Claim 1, wherein said point locating step is performed by selecting an acupuncture point on the subject's body.
- [c14] 14. The method of Claim 1, wherein said point locating step is performed by applying a nerve stimulator to the

subject's body and locating a point producing a muscle stimulation.

- [c15] 15. The method of Claim 1, wherein:
 the iontophoretic patch is multi-layered, comprising at
 least one layer containing a pharmaceutical agent and at
 least one juxtaposed layer containing a pH buffered
 electrolyte; and a means for applying an iontophoretic
 electrical current across the patch and the subject.
- [c16] 16. The method of Claim 15, wherein the iontophoretic patch comprises:

a first layer containing a pharmaceutical agent selected from the group consisting of ketamine, gabapentin, carbamazepine, clonidine, phenoxybenzamine, and nifedipine;

a second layer containing a pharmaceutical agent different from the agent contained in said first layer and selected from the group consisting of ketamine, gabapentin, carbamazepine, clonidine, phenoxybenzamine, and nifedipine; and

a third layer interposed between said first and second layers and containing a pH buffered electrolyte.

[c17] 17. The method of claim 1, wherein the pharmaceutical agent comprises a combination of dextromethorphan, clonidine, magnesium chloride, and amantadine.

- [c18] 18. A method of treating pain in a human or animal subject by administering a combination of preselected effective pharmaceutical agents in a suitable dosage to treat a subject in need thereof, comprising: first, performing a point locating step by locating a predetermined neurodermal point associated with the pain; second, providing the preselected pharmaceutical agents for treating pain in a gel patch suited for delivery by electrically driving charged ions of the pharmaceutical agents from the path and into the subject; third, performing an application step by applying the provided gel patch to the predetermined neurodermal point on the subject; and fourth, performing a delivery step by delivering the selected pharmaceutical agents from the patch to the subject by electrically driving charged ions of the pharmaceutical agents into the subject.
- [c19] 19. The method of Claim 18, wherein the preselected pharmaceutical agents are selected from the group consisting of an NMDA receptor blocker, a GABA receptor blocker, an AMPA receptor blocker, a nitric oxide synthase receptor blocker, a calcium channel blocker, an ACDP receptor blocker, a prostaglandin blocker, a leukotriene blocker, a substance P blocker, a bradykinin blocker, a neurotenin blocker, a peptide blocker, a TNF

- alpha blocker, a sympathetic alpha 1 receptor blocker, a sympathetic alpha 2 receptor blocker, a non-NMDA calcium-channel blocker, and combinations thereof.
- [c20] 20. The method of Claim 19, wherein the preselected pharmaceutical agents are carried in a topical vehicle comprising a pluronic lecithin organogel.
- [c21] 21. The method of Claim 18, wherein the preselected pharmaceutical agents are selected from the group consisting of ketamine, gabapentin, carbamazepine, clonidine, phenoxybenzamine, nifedipine, dextromethorphan, magnesium chloride, amantadine and combinations thereof.
- [c22] 22. The method of Claim 21, wherein the preselected pharmaceutical agents are carried in a topical vehicle comprising a pluronic lecithin organogel.
- [c23] 23. The method of Claim 18, wherein the preselected pharmaceutical agents comprise phenoxbenzamine, ketamine, and gabapentin in an approximate quantity ratio of 2:5:5.
- [c24] 24. The method of Claim 23, wherein the preselected pharmaceutical agents comprises by volume approximately 2% phenoxbenzamine, 5% ketamine, and 5% gabapentin carried in a topical vehicle.

- [c25] 25. The method of Claim 24, wherein the topical vehicle comprises a pluronic lecithin organogel.
- [c26] 26. The method of Claim 18, wherein the preselected pharmaceutical agents comprises a carrier containing ketamine in a quantity of at least 2% and clonidine in a quantity of at least 0.2% in concentration by volume, unbuffered.
- [c27] 27. The method of Claim 26, wherein said ketamine and clonidine each are in a concentration range of 2% to 4% by volume.
- [c28] 28. The method of Claim 18, wherein said point locating step is performed by applying an electronic point finder to the subject's body and detecting a point of reduced electrical resistance relative to the electrical resistance of a surrounding body area.
- [c29] 29. The method of Claim 18, wherein said point locating step is performed by applying an acupuncture point finder to the subject's body and locating an acupuncture point.
- [c30] 30. The method of Claim 18, wherein said point locating step is performed by selecting an acupuncture point on the subject's body.

- [c31] 31. The method of Claim 18, wherein said point locating step is performed by applying a nerve stimulator to the subject's body and locating a point producing a muscle stimulation.
- [c32] 32. The method of Claim 18, wherein said step of providing a gel patch further comprises: providing a multi-layered gel patch having at least one layer containing at least one selected pharmaceutical agent and at least one juxtaposed layer containing a pH buffered electrolyte; and providing a means for applying an electrical current across the patch and the subject for electrically delivering ions of the selected pharmaceutical agent to the subject.
- [c33] 33. The method of Claim 32, wherein the multi-layer gel patch comprises:
 a first layer containing at least one pharmaceutical agent selected from the group consisting of ketamine, gabapentin, carbamazepine, clonidine, phenoxybenzamine, and nifedipine; a second layer containing at least one pharmaceutical

a second layer containing at least one pharmaceutical agent different from an agent contained in said first layer and selected from the group consisting of ketamine, gabapentin, carbamazepine, clonidine, phenoxybenza-

mine, and nifedipine; and a third layer interposed between said first and second layers and containing a pH buffered electrolyte.

[c34] 34. The method of Claim 33, wherein said means for applying an electrical current comprises:

a battery supplying DC current; and
a means for selectively delivering the current in unipolar or bipolar mode;

a means for selecting the direction of current flow; and a means for selectively delivering the current as straight DC current or pulsed DC current.